

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/627,952
Source: JFWO
Date Processed by STIC: 07/26/2005

ENTERED



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/627,952

DATE: 07/26/2005

TIME: 09:49:42

Input Set : N:\Crf3\RULE60\10627952.raw
 Output Set: N:\CRF4\07262005\J627952.raw

SEQUENCE LISTING

1 (1) GENERAL INFORMATION:

2 (i) APPLICANT: Dong, Jin-Tang; Barrett,
 3 J. Carl; Lamb, Patricia W.; Isaacs, John T.
 4 (ii) TITLE OF INVENTION: DIAGNOSTIC METHODS AND
 5 GENE THERAPY USING REAGENTS DERIVED FROM THE
 6 HUMAN METASTASIS SUPPRESSOR GENE KAI1

7 (iii) NUMBER OF SEQUENCES: 20

8 (iv) CORRESPONDENCE ADDRESS:

9 (A) ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
 10 (B) STREET: 345 PARK AVENUE
 11 (C) CITY: NEW YORK
 12 (D) STATE: NEW YORK
 13 (E) COUNTRY: USA
 14 (F) ZIP: 10154

15 (v) COMPUTER READABLE FORM:

16 (A) MEDIUM TYPE: FLOPPY DISK
 17 (B) COMPUTER: IBM PC COMPATIBLE
 18 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 19 (D) SOFTWARE: MICROSOFT WORD 97

20 (vi) CURRENT APPLICATION DATA:

21 (A) APPLICATION NUMBER: US/10/627,952
 22 (B) FILING DATE: 24-Jul-2003

23 (vii) PRIOR APPLICATION DATA:

24 (A) APPLICATION NUMBER: US/09/795,380
 25 (B) FILING DATE: 27-Feb-2001

26 (A) APPLICATION NUMBER: 09/232,507

27 (B) FILING DATE:

28 (viii) ATTORNEY/AGENT INFORMATION:

29 (A) NAME: RICHARD W. BORK
 30 (B) REGISTRATION NUMBER: 36,459
 31 (C) REFERENCE/DOCKET NUMBER: 2026-4172US1

32 (ix) TELECOMMUNICATION INFORMATION:

33 (A) TELEPHONE: (212) 758-4800
 34 (B) TELEFAX: (212) 751-6849
 35 (C) TELEX: 421792

36 (2) INFORMATION FOR SEQ ID NO: 1:

37 (i) SEQUENCE CHARACTERISTICS:

38 (A) LENGTH: 20 base pairs
 39 (B) TYPE: nucleic acid
 40 (C) STRANDEDNESS: single
 41 (D) TOPOLOGY: linear

42 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/627,952

DATE: 07/26/2005
TIME: 09:49:42

Input Set : N:\Crf3\RULE60\10627952.raw
Output Set: N:\CRF4\07262005\J627952.raw

43	AGAAGATCAA GTTGAAGAGG	20
45	(2) INFORMATION FOR SEQ ID NO: 2:	
46	(i) SEQUENCE CHARACTERISTICS:	
47	(A) LENGTH: 20 base pairs	
48	(B) TYPE: nucleic acid	
49	(C) STRANDEDNESS: single	
50	(D) TOPOLOGY: linear	
51	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:	
52	GGGACCTCAT TTCCTAGCTG	20
54	(2) INFORMATION FOR SEQ ID NO: 3:	
55	(i) SEQUENCE CHARACTERISTICS:	
56	(A) LENGTH: 19 base pairs	
57	(B) TYPE: nucleic acid	
58	(C) STRANDEDNESS: single	
59	(D) TOPOLOGY: linear	
60	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:	
61	ATGAAACTGC TCTTGTGCGG	19
63	(2) INFORMATION FOR SEQ ID NO: 4:	
64	(i) SEQUENCE CHARACTERISTICS:	
65	(A) LENGTH: 20 base pairs	
66	(B) TYPE: nucleic acid	
67	(C) STRANDEDNESS: single	
68	(D) TOPOLOGY: linear	
69	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:	
70	TCAGCTCTTG GCTCCCCATT	20
72	(2) INFORMATION FOR SEQ ID NO: 5:	
73	(i) SEQUENCE CHARACTERISTICS:	
74	(A) LENGTH: 21 base pairs	
75	(B) TYPE: nucleic acid	
76	(C) STRANDEDNESS: single	
77	(D) TOPOLOGY: linear	
78	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:	
79	TGGGCACGGG TTTCAGGAAA T	21
81	(2) INFORMATION FOR SEQ ID NO: 6:	
82	(i) SEQUENCE CHARACTERISTICS:	
83	(A) LENGTH: 20 base pairs	
84	(B) TYPE: nucleic acid	
85	(C) STRANDEDNESS: single	
86	(D) TOPOLOGY: linear	
87	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:	
88	TGCAGAGAGC CCCAAATGCA	20
90	(2) INFORMATION FOR SEQ ID NO: 7:	
91	(i) SEQUENCE CHARACTERISTICS:	
92	(A) LENGTH: 20 base pairs	
93	(B) TYPE: nucleic acid	
94	(C) STRANDEDNESS: single	
95	(D) TOPOLOGY: linear	
96	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:	
97	AGGGTGAGCC GTGAGCACAA	20

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/627,952

DATE: 07/26/2005
TIME: 09:49:42

Input Set : N:\Crf3\RULE60\10627952.raw
Output Set: N:\CRF4\07262005\J627952.raw

99 (2) INFORMATION FOR SEQ ID NO: 8:
100 (i) SEQUENCE CHARACTERISTICS:
101 (A) LENGTH: 20 base pairs
102 (B) TYPE: nucleic acid
103 (C) STRANDEDNESS: single
104 (D) TOPOLOGY: linear
105 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
106 TGCTGAGAGT ACCCAGATGC 20
108 (2) INFORMATION FOR SEQ ID NO: 9:
109 (i) SEQUENCE CHARACTERISTICS:
110 (A) LENGTH: 19 base pairs
111 (B) TYPE: nucleic acid
112 (C) STRANDEDNESS: single
113 (D) TOPOLOGY: linear
114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
115 GATGGCCACA CCCACGCC 19
117 (2) INFORMATION FOR SEQ ID NO: 10:
118 (i) SEQUENCE CHARACTERISTICS:
119 (A) LENGTH: 20 base pairs
120 (B) TYPE: nucleic acid
121 (C) STRANDEDNESS: single
122 (D) TOPOLOGY: linear
123 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
124 TGCATGGAGA AGGTGCAGGC 20
126 (2) INFORMATION FOR SEQ ID NO: 11:
127 (i) SEQUENCE CHARACTERISTICS:
128 (A) LENGTH: 21 base pairs
129 (B) TYPE: nucleic acid
130 (C) STRANDEDNESS: single
131 (D) TOPOLOGY: linear
132 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
133 CCTCTTGCCC ACCCTGACTGA 21
135 (2) INFORMATION FOR SEQ ID NO: 12:
136 (i) SEQUENCE CHARACTERISTICS:
137 (A) LENGTH: 20 base pairs
138 (B) TYPE: nucleic acid
139 (C) STRANDEDNESS: single
140 (D) TOPOLOGY: linear
141 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
142 TTCACACCAT TCTCCTGCCT 20
144 (2) INFORMATION FOR SEQ ID NO: 13:
145 (i) SEQUENCE CHARACTERISTICS:
146 (A) LENGTH: 21 base pairs
147 (B) TYPE: nucleic acid
148 (C) STRANDEDNESS: single
149 (D) TOPOLOGY: linear
150 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
151 AGTCCTCCCT GCTGCTGTGT G 21
153 (2) INFORMATION FOR SEQ ID NO: 14:

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/627,952

DATE: 07/26/2005
TIME: 09:49:42

Input Set : N:\Crf3\RULE60\10627952.raw
Output Set: N:\CRF4\07262005\J627952.raw

154 (i) SEQUENCE CHARACTERISTICS:
155 (A) LENGTH: 21 base pairs
156 (B) TYPE: nucleic acid
157 (C) STRANDEDNESS: single
158 (D) TOPOLOGY: linear
159 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
160 TCAGTCAGGG TGGGCAAGAG G 21
162 (2) INFORMATION FOR SEQ ID NO: 15:
163 (i) SEQUENCE CHARACTERISTICS:
164 (A) LENGTH: 22 base pairs
165 (B) TYPE: nucleic acid
166 (C) STRANDEDNESS: single
167 (D) TOPOLOGY: linear
168 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
169 GAGGAGCACC CCGTGCTGCT GA22
171 (2) INFORMATION FOR SEQ ID NO: 16:
172 (i) SEQUENCE CHARACTERISTICS:
173 (A) LENGTH: 33 base pairs
174 (B) TYPE: nucleic acid
175 (C) STRANDEDNESS: single
176 (D) TOPOLOGY: linear
177 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
178 CTAGAACAT TTGCGGTGGA CGATGGAGGG GCC33
180 (2) INFORMATION FOR SEQ ID NO: 17:
181 (i) SEQUENCE CHARACTERISTICS:
182 (A) LENGTH: 24 base pairs
183 (B) TYPE: nucleic acid
184 (C) STRANDEDNESS: single
185 (D) TOPOLOGY: linear
186 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
187 TTGTAACCAA CTGGGACGAT ATGG24
189 (2) INFORMATION FOR SEQ ID NO: 18:
190 (i) SEQUENCE CHARACTERISTICS:
191 (A) LENGTH: 23 base pairs
192 (B) TYPE: nucleic acid
193 (C) STRANDEDNESS: single
194 (D) TOPOLOGY: linear
195 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
196 GTCTTGATCT TCATGGTGCT AGG23
198 (2) INFORMATION FOR SEQ ID NO: 19:
199 (i) SEQUENCE CHARACTERISTICS:
200 (A) LENGTH: 1624 base pairs
201 (B) TYPE: nucleic acid
202 (C) STRANDEDNESS: single
203 (D) TOPOLOGY: linear
204 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
205 CCGACTGAGG CACGAGCGGG TGACGCTGGG CCTGCAGCGC 40
206 GGAGCAGAAA GCAGAACCCG CAGAGTCCTC CCTGCTGCTG 80
207 TGTGGACGAC ACGTGGGCAC AGGCAGAACT GGGCCCTGTG 120

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/627,952

DATE: 07/26/2005
TIME: 09:49:42

Input Set : N:\CrF3\RULE60\10627952.raw
Output Set: N:\CRF4\07262005\J627952.raw

208	ACCAAGCTGCA	CTGGTTTCGT	GGAAAGGAAGC	TCCAGGACTG	160
209	GCGGGATGGG	CTCAGCCTGT	ATCAAAGTCA	CCAAATACTT	200
210	TCTCTTCCTC	TTCAACTTGA	TCTTCTTTAT	CCTGGGCGCA	240
211	GTGATCCTGG	GCTTCGGGGT	GTGGATCCTG	GGCGACAAAGA	280
212	GCAGTTTCAT	CTCTGTCTG	CAAACCTCCT	CCAGCTCGCT	320
213	TAGGATGGGG	GCCTATGTCT	TCATCGGCCT	GGGGGCAGTC	360
214	ACTATGCTCA	TGGGCTTCCT	GGGCTGCATC	GGCGCCGTCA	400
215	ACGAGGTCCG	CTGCCTGCTG	GGGCTGTACT	TTGCTTCCCT	440
216	GCTCCTGATC	CTCATTGCC	AGGTGACGGC	CGGGGCCCTC	480
217	TTCTACTTCA	ACATGGGCAA	GCTGAAGCAG	GAGATGGGCG	520
218	GCATCGTGAC	TGAGCTCATT	CGAGACTACA	ACAGCAGTCG	560
219	CGAGGGACAGC	CTGCAGGATG	CCTGGGACTA	CGTGCAGGCT	600
220	CAGGTGAAGT	GCTGCGGCTG	GGTCAGCTTC	TACAACCTGGA	640
221	CAGACAACGC	TGAGCTCATG	AATCGCCCTG	AGGTCACCTA	680
222	CCCCTGTTCC	TGCGAAGTCA	AGGGGGAAGA	GGACAAACAGC	720
223	CTTTCTGTGA	GGAAAGGGCTT	CTGGCAGGCC	CCCGGCAACAA	760
224	GGACCCAGAG	TGGCAACCAC	CCTGAGGACT	GGCCTGTGTA	800
225	CCAGGAGGGC	TGCATGGAGA	AGGTGCAGGC	GTGGCTGCAG	840
226	GAGAACCTGG	GCATCATCCT	CGGGGTGGGC	GTGGGTGTGG	880
227	CCATCATCGA	GCTCCTGGGG	ATGGTCTCTG	CCATCTGCTT	920
228	GTGCCGGCAC	GTCCATTCCG	AAGACTACAG	CAAGGTCCCC	960
229	AAGTACTGAG	GCAGCTGCTA	TCCCCATCTC	CCTGCCTGGC	1000
230	CCCCAACCTC	AGGGCTCCCA	GGGGTCTCCC	TGGCTCCCTC	1040
231	CTCCAGGCCT	GCCTCCCACT	TCACTGCGAA	GACCCTCTTG	1080
232	CCCACCCCTGA	CTGAAAGTAG	GGGGCTTTCT	GGGGCCTAGC	1120
233	GATCTCTCCT	GGCCTATCCG	CTGCCAGCCT	TGAGCCCTGG	1160
234	CTGTTCTGTG	GTTCCTCTGC	TCACCGCCCA	TCAGGGTTCT	1200
235	CTTATCAACT	CAGAGAAAAA	TGCTCCCCAC	AGCGTCCCTG	1240
236	GCGCAGGTGG	GCTGGACTTC	TACCTGCCCT	CAAGGGTGTG	1280
237	TATATTGTAT	AGGGGCAACT	GTATGAAAAA	TTGGGGAGGA	1320
238	GGGGGCCGGG	CGCGGTGCTC	ACGCCTGTAA	TCCCAGCACT	1360
239	TTGGGAGGCC	GAGGCGGGTG	GATCACGAGG	TCAGGAGATC	1400
240	GAGACCATCC	TGGCTAACAT	GGTGAAACCC	CGTCTCTACT	1440
241	AAAAATACAA	AAAAAATTAA	GCCGGGCGCG	GTGGCGGGCA	1480
242	CCTGTAGTCC	CAGCTACTTG	GGAGGCTGAG	GCAGGAGAAT	1520
243	GGTGTGAACC	CGGGAGCGGA	GGTTGCAGTG	AGCTGAGATC	1560
244	GTGCTACTGC	ACTCCAGCCT	GGGGGACAGA	AAGAGACTCC	1600
245	GTCTCAAAAAA	AAAAAAAGAAA	AAAA		1624

247 (2) INFORMATION FOR SEQ ID NO: 20:

248 (i) SEQUENCE CHARACTERISTICS:

249 (A) LENGTH: 267 amino acids

250 (B) TYPE: amino acid

251 (C) STRANDEDNESS: unknown

252 (D) TOPOLOGY: unknown

253 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

254 Met Gly Ser Ala Cys Ile Lys Val Thr Lys Tyr Phe

255 1 5 10

256 Leu Phe Leu Phe Asn Leu Ile Phe Phe Ile Leu Gly

257 15 20

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/627,952

DATE: 07/26/2005

TIME: 09:49:43

Input Set : N:\Crf3\RULE60\10627952.raw
Output Set: N:\CRF4\07262005\J627952.raw

L:21 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:22 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:26 M:238 W: Alpha Fields not Ordered [(A) APPLICATION NUMBER:] of (1) (vii)